

Claims

1. An optoelectronic assembly (300) comprising an optical emitter (102) for emitting light along a main optical path, at least one mouldable, substantially rigid optical light guide (310) having a first end (314) for receiving a small proportion of the light from the main optical path and a second end (315), and at least one photodetector (304) located adjacent the second end (315) of the optical waveguide (310) for receiving light there from.
- 10 2. An optoelectronic assembly according to claim 1, wherein the optical emitter (102), the at least one photodetector (304) and the at least one optical light guide (310) are mounted on a substrate (124) and the at least one photodetector (304) is arranged at a periphery of the substrate.
- 15 3. An optoelectronic assembly according to claim 1, wherein the optical emitter (102) is mounted on a substrate (124) and the at least one photodetector (304) is mounted on a second substrate (130).
- 20 4. An optoelectronic assembly according to any preceding claim, including a plurality of mouldable, substantially rigid optical light guides (310), and a plurality of photodetectors (304), the plurality of optical light guides each having a second end (315) located adjacent a respective one of the photodetectors.
- 25 5. An optoelectronic assembly according to claim 4, wherein the plurality of photodetectors (304) is mounted as an array (302) adjacent the periphery of the substrate or the second substrate (130).
- 30 6. An optoelectronic assembly according to claim 5, wherein the plurality of optical light guides (310) is manufactured as a single assembly for mounting to the substrate.

7. An optoelectronic assembly according to any preceding claim, wherein the optical light guide(s) includes at least one structural feature to facilitate interception of the light from the main optical path.
- 5 8. An optoelectronic assembly according to any one of claims 1 to 6, further comprising means for splitting (110, 114) a small proportion of light from the main optical path into a secondary light path and wherein the first end of the optical light guide(s) is positioned in the secondary light path.
- 10 9. An optoelectronic assembly according to any preceding claim, wherein the optical waveguide(s) is made from a stable, low absorption plastics material.
- 10 10. An optoelectronic assembly according to any preceding claim, wherein the optical waveguide(s) includes one or more fiducials to facilitate alignment of
- 15 the waveguide to the substrate.